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TITLE: ELECTRICALLY CONDUCTIVE METALLIC OXIDE PARTICLES, METHOD FOR PRODUCING
ELECTRICALLY CONDUCTIVE METALLIC OXIDE PARTICLES, BASIC MATERIAL WITH TRANSPARENT
ELECTRICALLY CONDUCTIVE COATING, AND DISPLAYING DEVICE

PUBN-DATE: February 7, 2003

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ABSTRACT:

PROBLEM TO BE SOLVED: To provide electrically conductive metallic oxide particles, having a low surface resistance as low as 10²-10⁴ Ω/(square), excellent in antistaticity, antireflective property, and electromagnetic shielding property and also excellent in transparency and reliability of a coating, and capable of being used for forming a transparent electrically conductive coating.

SOLUTION: The electrically conductive metallic oxide particles comprise an electrically conductive metallic oxide. The particles contain a component for improving the electric conductivity comprising one or more metallic elements selected from among Au, Ag, Pd, Pt, Rh, Ru, Cu, Fe, Ni, and Co, and have the content of the component for improving electric conductivity within the range of 0.01-1.5 wt.%, which is reduced to a metal weight. An indium oxide doped with Sn, Zn, Zr or F is preferable for the electrically conductive metallic oxide.

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